

**IN THE CLAIMS**

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please cancel claim 38 without prejudice or disclaimer, amend claims 34, 39 and 41, and add claim 49 as follows:

Claims 1-33. (Canceled)

1           34. (Currently Amended) A system for operating wired and wireless phone services  
2 interconnectively, the system comprising:

3           a wired exchange connected to a public switched telephone network (PSTN), for  
4 providing a wired phone service;

5           a mobile gateway connected to the wired exchange for assigning virtual wired phone  
6 numbers to a plurality of mobile communication terminals, for providing a public wired  
7 phone service to the mobile communication terminals by linking the virtual wired phone  
8 numbers with mobile identifier numbers (MINs) of the mobile communication terminals, and  
9 for distributing a call to a wired terminal and then to a wireless terminal when it is  
10 determined that a phone number received from the wired exchange is a simultaneously called  
11 phone number ; and

12           a private base station controller (pBSC) connected to the mobile gateway and a public  
13 land mobile network (PLMN) for providing a mobile communication service to the mobile  
14 communication terminals through a private base station transceiver system (pBTS);

15           wherein the pBSC comprises a database for storing the virtual wired phone number  
16 assigned to each of the mobile communication terminals and the MIN of the mobile  
17 communication terminal corresponding to the virtual wired phone number.

1           35. (Previously Presented) The system according to claim 34, wherein the mobile  
2 gateway calls a mobile communication terminal corresponding to the virtual wired phone  
3 number when receiving an incoming call containing the virtual wired phone number through  
4 the wired exchange.

1           36. (Previously Presented) The system according to claim 34, wherein the mobile  
2 gateway comprises a database for storing, for each arbitrary wired phone number,  
3 information indicating whether or not each of the wired phone numbers is a virtual phone  
4 number and information about whether or not a multiple terminating service is registered.

1           37. (Previously Presented) The system according to claim 36, wherein the mobile  
2 gateway simultaneously calls a wired terminal corresponding to the wired phone number and  
3 the mobile communication terminal when the wired phone number is registered with the  
4 multiple terminating service and is called.

Claim 38. (Canceled)

1           39. (Currently Amended) ~~[[The]]~~ A system according to claim 34, for operating  
2 wired and wireless phone services interconnectively, the system comprising:  
3 a wired exchange connected to a public switched telephone network (PSTN), for  
4 providing a wired phone service;  
5 a mobile gateway connected to the wired exchange for assigning virtual wired phone  
6 numbers to a plurality of mobile communication terminals, for providing a public wired  
7 phone service to the mobile communication terminals by linking the virtual wired phone  
8 numbers with mobile identifier numbers (MINs) of the mobile communication terminals, and  
9 for distributing a call to a wired terminal and then to a wireless terminal when it is  
10 determined that a phone number received from the wired exchange is a simultaneously called

11 phone number ; and

12 a private base station controller (pBSC) connected to the mobile gateway and a public  
13 land mobile network (PLMN) for providing a mobile communication service to the mobile  
14 communication terminals through a private base station transceiver system (pBTS);

15 wherein the mobile gateway assigns an extension subscriber line card (SLC) of a  
16 wired phone connected to a trunk thereof with the SLC thereof, and connects the assigned  
17 extension SLC to a plurality of wired terminals.

1 40. (Previously Presented) The system according to claim 34, wherein, when  
2 receiving a request for an outgoing service from an internal mobile communication terminal,  
3 the mobile gateway changes caller identification (CID) to the virtual wired phone number  
4 assigned to the internal mobile communication terminal, and calls a called terminal via the  
5 PSTN.

1 41. (Currently Amended) A method for operating wired and wireless phone services  
2 interconnectively, the method comprising the steps of:

3 assigning, by a mobile gateway, virtual wired phone numbers to a plurality of mobile  
4 communication terminals;

5 providing, by the mobile gateway, a public wired phone service to the mobile  
6 communication terminals by linking the virtual wired phone numbers with mobile identifier  
7 numbers (MINs) of the mobile communication terminals;

8 determining whether a called phone number received by a wired exchange is a wired  
9 subscriber phone number when a subscriber terminal calls a wired phone number;

10 analyzing, by the mobile gateway, the phone number received from the wired  
11 exchange to determine whether the phone number is a simultaneously called phone number;  
12 [[and]]

13 distributing, by the mobile gateway, the call to a wired terminal and then to a wireless

terminal when it is determined that the phone number is the simultaneously called phone number; and

storing, in a database of a private base station controller (pBSC), the virtual wired phone number assigned to each of the mobile communication terminals and the MIN of the mobile communication terminal corresponding to the virtual wired phone number.

42. (Previously Presented) The method according to claim 41, wherein in the step of providing the public wired phone service, when a called number containing an incoming call received through a wired exchange is a virtual wired phone number, the mobile gateway transmits the incoming call to the mobile communication terminal corresponding to the virtual wired phone number.

43. (Previously Presented) The method according to claim 41, further comprising the step of providing the mobile gateway with a database for storing, for each arbitrary wired phone number, information indicating whether or not each of the wired phone numbers is a virtual phone number and information about whether or not a multiple terminating service is registered.

44. (Previously Presented) The method according to claim 43, further comprising the step of simultaneously calling, by the mobile gateway, a wired terminal corresponding to the wired phone number and the mobile communication terminal when the wired phone number registered with the multiple terminating service is called.

45. (Previously Presented) The method according to claim 44, further comprising the step of rerouting, by the mobile gateway, an incoming call to one of a public switched telephone network (PSTN) and a public land mobile network (PLMN) when the called wired terminal and the mobile communication terminal make no response.

1           46. (Previously Presented) The method according to claim 41, further comprising the  
2 step of, when the mobile gateway receives a request for an outgoing service from an internal  
3 mobile communication terminal, changing, by the mobile gateway, a caller identification  
4 (CID) to the virtual wired phone number assigned to the internal mobile communication  
5 terminal, and calling a called terminal via the public switched telephone network (PSTN).

1           47. (Previously Presented) The method according to claim 46, further comprising the  
2 step of performing, by billing equipment existing at a central office of the PSTN, billing of  
3 communication between the internal mobile communication terminal and a called external  
4 terminal.

1           48. (Previously Presented) The method according to claim 46, further comprising the  
2 step of performing, by the mobile gateway, billing of communication between the internal  
3 mobile communication terminal and a called extension subscriber terminal.

1           49. (New)     A method for operating wired and wireless phone services  
2 interconnectively, the method comprising the steps of:

3           assigning, by a mobile gateway, virtual wired phone numbers to a plurality of mobile  
4 communication terminals;

5           providing, by the mobile gateway, a public wired phone service to the mobile  
6 communication terminals by linking the virtual wired phone numbers with mobile identifier  
7 numbers (MINs) of the mobile communication terminals;

8           determining whether a called phone number received by a wired exchange is a wired  
9 subscriber phone number when a subscriber terminal calls a wired phone number;

10          analyzing, by the mobile gateway, the phone number received from the wired  
11 exchange to determine whether the phone number is a simultaneously called phone number;

12           distributing, by the mobile gateway, the call to a wired terminal and then to a wireless  
13 terminal when it is determined that the phone number is the simultaneously called phone  
14 number; and

15           assigning, by the mobile gateway, an extension number subscriber line card (SLC) of  
16 a wired phone connected to a trunk thereof with the SLC thereof, and connecting the assigned  
17 extension SLC to a plurality of wired terminals.